



THiNK

Increased food safety. Less waste.

Metal detection with Artificial Intelligence.

Food with a high product effect (intrinsic conductivity) makes metal detection in food more difficult.

With **THiNK** – the new software for metal detectors based on Artificial Intelligence – these "interfering signals" can be faded out much better than with conventional metal detectors.

Your benefits

- Increased food safety – less risk for product recalls
- Less food waste
- Higher profitability
- Inspection of products in metallized packaging



Challenging applications in metal detection

The detection of metal contamination is often made difficult by the high intrinsic conductivity of the products being inspected. This phenomenon is called product effect and occurs for example with protein products (meat, fish, dairy products), with products in metallized packaging or with high salt and moisture content (e.g. with brine).

Consequences:

- Food safety requirements cannot be met
- The risk of expensive product recalls is increasing
- Frequent false rejections reduce productivity

Your benefits in detail

THiNK helps food manufacturers and processors to reliably detect even the smallest metal contaminations, especially in demanding applications with high or fluctuating product effects.

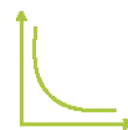
Increased food safety – less product recalls

With the help of artificial intelligence, **THiNK** detects significantly smaller metal foreign bodies than conventional metal detectors, even when the product effect is high. This greatly reduces the risk of unwanted product recalls, saves costs and protects your brand image.



Less food waste

THiNK can virtually eliminate product effects and thus actively reduces false rejections due to excessive intrinsic conductivity. This reduces food waste and saves costs.



Inspection of products in metallized packaging

Products that are packed in metallized film have been difficult to inspect with metal detectors until now. X-ray inspection equipment is often necessary for this purpose.



With **THiNK** even this is now possible. The intelligent software simply masks out the metal signal from the packaging and only detects the actual metal contamination.

Applications and features:

- **THiNK** is a software package developed for the Sesotec metal detector INTUITY (available as metal detector or as metal detection system) and can therefore also be retrofitted to existing devices.
- **THiNK** works on the basis of artificial intelligence. This enables the software to draw conclusions from very large amounts of data that go far beyond if-then rules.
- Virtually creates a digital fingerprint of the product effect to nearly mask it out completely.

THiNK compared to standard metal detection

Produktname/ Product name (Spulengröße/Coil size)	Abmessungen Dimension [mm]	THiNK			Standard-Single-Frequenz		
		Ø Fe	Ø V2A	Ø NonFe	Ø Fe	Ø V2A	Ø NonFe
Kirschpaprika Cherry peppers (250/150)	150x100x40	0,70	1,5	0,9	0,79	3,00	1,5
Putenbrust Turkey breast (250/150)	220x140x50	1,0	1,80	1,0	1,6	3,5	2,5
Forellenfilet Trout fillet (250/150)	290x110x20	0,5	1,3	0,59	1,75	2,5	2,0
Käseaufschnitt Cheese (250/150)	190x130x25	1,0	1,30	1,0	1,0	3,0	2,0
Nudeln Pasta (250/150)	320x170x60	0,80	1,10	0,8	1,2	1,5	1,0